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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/748,032	12/30/2003	Mang Zhu	CS23259RL	6749
20280	7590	05/04/2006		EXAMINER
MOTOROLA INC 600 NORTH US HIGHWAY 45 ROOM AS437 LIBERTYVILLE, IL 60048-5343				FERGUSON, KEITH
			ART UNIT	PAPER NUMBER
			2617	

DATE MAILED: 05/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/748,032	ZHU ET AL.	
	Examiner	Art Unit	
	Keith T. Ferguson	2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 30 December 2003.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-21 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date: _____
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date: _____	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

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DETAILED ACTION

1. The Art Unit location of your application in the USPTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Art Unit 2617.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-4, 7-14 and 17-20 are rejected under 35

U.S.C. 102(e) as being anticipated by Balachandran et al..

The claimed invention reads on Balachandran et al. as follows:

Regarding claims 1,7-12, Balachandran et al. discloses a method in a wireless broadcast/multicast service subscriber user device (mobile station, remote station, etc) (abstract and paragraph 0017 lines 1-9 and paragraph 0023 lines 1-5), the method comprising: determining a slot to monitor for paging information (paragraph 0030 lines 1-10 and paragraph 0037 line 1

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through paragraph 0038 line 12); obtaining a broadcast service parameter message (BSPM) (broadcast/multicast service information) by monitoring the slot for paging information indicating the availability of the broadcast/multicast service (i.e. the user detects the BSPM indicators are "ON" for a given broadcast multicast service content (i.e. content source), then the user monitors the broadcast) (paragraph 0028 lines 1-14 and paragraph 0037 line 1 through paragraph 0038 line 11).

Regarding claims 2 and 3, Balachandran et al. discloses obtaining a broadcast/multicast service (BCMCS) (broadcast/multicast service identification information) (paragraph 0028 lines 1-14 and paragraph 0037 line 1 through paragraph 0038 line 11), determining the slot to monitor based on the broadcast/multicast service identification information (paragraph 0028 lines 1-14, paragraph 0037 line 1 through paragraph 0038 line 11 and paragraph 0045 line 1 through paragraph 0046 line 13).

Regarding claim 4, Balachandran et al. discloses obtaining the broadcast/multicast service identification information from a system overhead message received by the wireless broadcast/multicast service subscriber device (paragraph 0028 lines 1-14).

Regarding claims 13,18 and 20, Balachandran et al. discloses a method in a wireless communications network providing broadcast/multicast services (abstract, paragraph 0017 lines 1-9 and paragraph 0022 line 1 through paragraph 0026 line 13), the method comprising: determining a paging slot (paragraph 0028 lines 1-17); sending a broadcast/multicast service (BCMCS) (broadcast/multicast service identification information) to users (subscribers) of a corresponding broadcast/multicast service (paragraph 0028 lines 1-14 and paragraph 0037 line 1 through paragraph 0038 line 11), the broadcast/multicast service identity identifying the determined paging slot (paragraph 0037

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line 1 through paragraph 0038 line 11); sending broadcast/multicast service information on the determined paging slot (i.e. broadcast/multicast content flows) (paragraph 0038 line 1-11 and paragraph 0046 line 1 through paragraph 0047 line 9).

Regarding claims 14 and 19, Balachandran et al. discloses a unique flow identification (BCMCS flow ID) in a paging slot for subscribers less likely than other paging slots to be monitored by non-subscribers of a broadcast-multicast service (paragraph 0028 lines 1-17).

Regarding claim 17, Balachandran et al. discloses a broadcast/multicast identity based on a hash function (paragraph 0042 lines 1-5).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 5,6,15,16 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Balachandran et al. in view of Collins et al..

Regarding claims 5 and 6, Balachandran et al. discloses a method as discussed supra in claims 1 and 2 above. Balachandran et al. differs from claims 5 and 6 of the present invention in that it does not disclose obtaining updated broadcast/multicast service identification information, determining a new slot to monitor based on the updated broadcast/multicast service

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identification information, determining broadcast/multicast service availability by monitoring the new slot for paging information indicating the availability of the broadcast/multicast service. Collins et al. discloses a subscriber station which receives multicast/broadcast information (col. 2 lines 12-61). The subscriber station receives a new page indicator in each slot on a paging channel (col. 3 lines 30-38 and col. 12 lines 1-54). The page indicator is used for the subscriber station to determine to monitor for new broadcast pages (col. 3 lines 30-38 and col. 12 lines 1-54). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Balachandran et al. with obtaining updated broadcast/multicast service identification information, determining a new slot to monitor based on the updated broadcast/multicast service identification information, determining broadcast/multicast service availability by monitoring the new slot for paging information indicating the availability of the broadcast/multicast service in order for the user equipment to only monitor for contents it wishes to receive, which results in power saving within the user device, as taught by Collins et al..

Regarding claims 15 and 21, Balachandran et al. discloses a network as discussed supra in claim 13 and 17 above. Balachandran et al. differs from claims 15 and 21 of the present invention in that it does not disclose determining a new paging slot; sending a new broadcast/multicast service identity to subscribers of the broadcast/multicast service, the new broadcast/multicast service identity identifying the new paging slot; sending broadcast/multicast service information on the new paging slot. Collins et al. discloses a subscriber station which receives multicast/broadcast information (col. 2 lines 12-61). The subscriber station receives a new page indicator in each slot on a paging channel. The page indicator is used for the subscriber station to determine to monitor for new broadcast pages (col. 3 lines 30-38 and col. 12 lines 1-54). Collins et al. discloses a system (fig. 1) broadcast a multicast/broadcast information to a receiver (col. 2 lines 12-61). The system sends a new page indicator in each slot on a paging channel to a receiver station (col. 3 lines 30-38 and col. 12 lines 1-54). The page indicator is used for the subscriber station to determine to monitor for new broadcast pages (col. 3 lines 30-38 and col. 12 lines 1-54). Therefore, it

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would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Balachandran et al. with determining a new paging slot; sending a new broadcast/multicast service identity to subscribers of the broadcast/multicast service, the new broadcast/multicast service identity identifying the new paging slot; sending broadcast/multicast service information on the new paging slot in order for the network to provide broadcast contents to the user equipment which the user subscribes which allows the user equipment to only monitor for contents it wishes to receive, which results in less network resources being used by not broadcasting contents the user does not want, as taught by Collins et al..

Regarding claim 16, Balachandran et al. discloses a unique flow identification (BCMCS flow ID) in a paging slot for subscribers less likely than other paging slots to be monitored by non-subscribers of a broadcast-multicast service (paragraph 0028 lines 1-17).

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Sinnarajah et al. (U.S. Pub. 2005/0169203 A1) discloses a method for multicast service initiation in a communication system.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Keith T. Ferguson whose telephone number is (571) 272-7865. The examiner can normally be reached on 6:30am-4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be

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reached on (571) 272-7872. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Keith Ferguson
Art Unit 2617
April 26, 2006

KEITH FERGUSON
PRIMARY EXAMINER
